



US006355160B1

(12) **United States Patent**
Wiseman et al.

(10) **Patent No.:** US 6,355,160 B1
(45) **Date of Patent:** Mar. 12, 2002

(54) **GRAY-WATER RECYCLING SYSTEM**

(76) **Inventors:** Cecil A. Wiseman, Buckett's Way,
Wards River, New South Wales, 2422;
Christopher Wiseman, P.O. Box 8089,
Coffs Harbour, New South Wales, 2450,
both of (AU)

(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 09/621,446

(22) **Filed:** Jul. 21, 2000

(51) **Int. Cl.⁷** A47K 4/00

(52) **U.S. Cl.** 210/90; 210/97; 210/136;
210/137; 210/257.1; 210/258; 4/661; 4/665;
137/114

(58) **Field of Search** 210/90, 97, 136,
210/137, 170, 195.1, 257.1, 258; 4/665,
663, 661; 137/114, 111, 113

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,311,851 A * 2/1943 McClure
3,915,857 A 10/1975 Olson
4,145,279 A 3/1979 Selby, III
4,162,218 A 7/1979 McCormick

4,228,006 A * 10/1980 Hanna
5,106,493 A 4/1992 McIntosh
5,303,728 A * 4/1994 Senatore
5,317,766 A 6/1994 McDonald et al.
5,406,657 A 4/1995 Donati
5,845,346 A * 12/1998 Johnson, Jr.

* cited by examiner

Primary Examiner—Joseph W. Drodge

Assistant Examiner—Terry K. Cecil

(57) **ABSTRACT**

A gray-water recycling system for reclaiming gray-water for use in toilets and lawn care. The system includes a reservoir adapted to treat gray-water and includes an intake pipe, an outlet pipe and an overflow pipe. An inlet coupled to the intake pipe supplies gray-water to the reservoir. A filter is fluidly coupled to the outlet pipe for filtering gray-water to define processed gray-water. A pump is fluidly coupled to the by a pipe. A first valve (24) controls flow of the processed gray-water from the pump. The first valve is fluidly coupled to the pump, a fresh water inlet and a processed gray-water outlet. The first valve is adapted to open the fresh water if the water pressure from the processed gray-water falls. Also included is a pressure valve (52) adapted to manually adjust the pressure of the processed gray-water outlet and to allow a flow of fresh water in the event the solenoid of the first valve fails to operate.

11 Claims, 2 Drawing Sheets

